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SHAKTI

Forge Industries Pvt. Ltd.

CIN No. U29100GJ2015PTC084600

An ISO:9001 Certified

Manufacturer of Pipe Fitting & Flanges

Forgings, Precision Components & Industrial Suppliers

Country of Origin: India

TEST CERTIFICATE :-

[In Accordance with EN 10204:2005 (E) Type 3.1]

CERTIFICATE NO.: SFIPL/TC/E/2023/12615							DATE: 28/Sep/23						
							PO. NO.: 353048-408						
Item Details as follow :-							PROCESS OF MANUFACTURING:- HOT FORGING / MACHINING						
Po. Sr.No.		ITEM DESCRIPTION				Material Specification		Size X Class			Qty	Lot No	HT No.
010		90DEG ELBOW SW				SA / A105N		4" 3000#			70	F148	2304280
MILL TEST PROPERTIES													
Lot No	HT NO.	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	V	Al	CE
Min		-	0.60	0.10	-	-	-	-	-	-	-	-	-
Max		0.350	1.050	0.350	0.040	0.035	0.300	0.400	0.120	0.400	0.080	-	0.470
F148	2304280	0.180	1.18*	0.250	0.020	0.014	0.017	<0.0004	<0.0004	0.003	0.001	0.024	0.378
CHEMICAL PROPERTIES (TEST METHOD AS PER ASTM E-415)													
Lot No	HT NO.	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	V	Al	CE
Min		-	0.60	0.10	-	-	-	-	-	-	-	-	-
Max		0.350	1.050	0.350	0.040	0.035	0.300	0.400	0.120	0.400	0.080	-	0.470
F148	2304280	0.187	1.134*	0.234	0.023	0.012	0.007	0.007	<0.001	<0.005	<0.001	0.023	0.379
MECHANICAL PROPERTIES (TEST METHOD AS PER ASTM A370)													
Lot No	HT NO.	Yield Strength / (0.2 % Offset method) MPa		Ultimate Tensile Strength MPa		Elongation (%) G.L.=4D		Reduction In Area %		Hardness In BHN	Heat Treatment		
Min		250.00		485.00		22.00%		30.00%		137	Normalizing at 910°C Soaking Time 01:15 HRS and Air Cooled.		
Max		-		-		-		-		187			
F148	2304280	328.720		549.270		27.620		54.810		159 - 162			
MARKING DETAILS :- (BRAND, MATERIAL+N, LOT NO, STD, PRESSURE, SIZE, COUNTRY OF ORIGIN)													
MATERIAL STANDARD :		ASME Section II Part-A SA105 - 2023 / ASTM A105 - 2023						DIMENSION STANDARD :-		ASME B16.11 - 2021			
GALVANIZING STANDARD :-		N.A.						THREADING STANDARD :-		N.A.			
Remark :- MATERIAL CONFIRMS TO ASME Section II Part-A SA105 - 2023 / ASTM A105 - 2023													
Note:- 1) Material Confirms the Requirements as per NACE MR-0175/ISO15156 & NACE MR0103.													
* For each reduction of 0.01% below the specified carbon max.(0.35%), an increase of 0.06% manganese above the specified max.(1.05%)willbe permitted up to a max of 1.35%.													
We hereby certify that the fitting was manufactured, sampled, tested and inspected in the specification and was found to meet the requirements													
For, Shakti Forge Industries Pvt. Ltd.				For, Shakti Forge Industries Pvt. Ltd.				For Client / Third Party Insp. Agency					
 Kachhela Jayesh QA/QC (Inspected By)				 Naitik Thaker Quality Manager (Approved By)				(Auth. Signature & Stamp)					